

PolyMet's Estimated Wetland Mitigation Utilizing Approved Wetland Bank Credits from BSA-1

TOTAL IMPACTS		Nonforested, nonbog, and low quality or medium quality (1.5:1)		Nonforested, nonbog, and high quality (1.75:1)		bogs and forested, and low or medium quality (1.75:1)		bogs and forested, and high quality (2:1)		TOTAL USACE Credits	Incentives applied to TOTAL USACE Credits
	<i>acres</i>	<i>acres</i>	<i>acres*1.5</i>	<i>acres</i>	<i>acres*1.75</i>	<i>acres</i>	<i>acres*1.75</i>	<i>acres</i>	<i>acres*2</i>		
Type 2 Fresh (Wet) Meadow	15.8	1.4	2.1	14.4	25.3	0.0	0.0	0.0	0.0	27.3	19.4
Type 2 Sedge Meadow	23.9	6.9	10.3	17.1	29.9	0.0	0.0	0.0	0.0	40.2	28.2
Type 3 Shallow Marsh	70.5	46.6	69.8	23.9	41.8	0.0	0.0	0.0	0.0	111.7	76.4
Type 4 Deep Marsh	75.7	75.6	113.4	0.1	0.2	0.0	0.0	0.0	0.0	113.5	75.7
Type 6 Shrub Carr	3.9	1.4	2.1	2.5	4.4	0.0	0.0	0.0	0.0	6.5	4.5
Type 6 Alder Thicket	110.6	7.5	11.3	103.1	180.4	0.0	0.0	0.0	0.0	191.6	136.3
Type 7 Hardwood Swamp	13.2	0.0	0.0	0.0	0.0	0.7	1.2	12.5	25.0	26.2	19.6
Type 7 Coniferous Swamp	85.7	0.0	0.0	0.0	0.0	13.0	22.8	72.7	145.3	168.1	125.3
Type 8 Open Bog	7.6	0.0	0.0	0.0	0.0	0.0	0.0	7.6	15.3	15.3	11.5
Type 8 Coniferous Bog	523.4	0.0	0.0	0.0	0.0	0.0	0.0	523.4	1046.8	1046.8	785.1
Total	930.2	139.3	208.9	161.0	281.8	13.7	24.0	616.2	1232.3	1747.04	1282.0
NOTES: fragmented wetlands included in total (26.9 acres) totals may not be exact due to rounding base ratio 1.5:1 per USACE St. Paul District Policy for wetlands that are not considered high quality of difficult to replace base ratio 1.75:1 per USACE May 29, 2013 Draft Memorandum for wetlands that are high quality base ratio 1.75:1 per USACE May 29, 2013 Draft Memorandum for wetlands that are difficult to replace, which includes forested swamps, bog base ratio 2:1 per USACE Draft Memorandum for wetlands that are high quality and difficult to replace, including forested wetland and bog communities USACE St. Paul District Policy, 0.25 reduction for "in place" (within project area BSA) and 0.25 reduction for "in advance" (USACE approved b										USACE Indirects:	167
										TOTAL	1449.0
										Option Agreement:	1800
										remaining:	351.0